Qty:

Each

1 Um:

: HIGH AFT X-TUBE 412

: D412-664-243 REV D

: D412664203

: 31/08/2008

: N/A

: D

Tuesday, 12/08/2008 8:45:25 AM

Linda Lacelle

Process Sheet

Drawing Name

Part Number

Material

Due Date

Drawing Number

Project Number

Drawing Revision

Customer Job Number : CU-DAR001 Dart Helicopters Services

: 41153

Estimate Number : 10559

P.O. Number

First Issue

Written By

Previous Run

This Issue

S.O. No. : : 12/08/2008

Prsht Rev.

: NC

: 12/08/2008

: CROSSTUBES Type

: 40750

06-03-29

06.12.08

Checked & Approved By

Comment

Est Rev:F Est Rev:G

Est Rev:H 07-04-30

As per Rev D 08-06-12 Est Rev:I

by:EC

per ECN 886

Reformat; Added D3189-1 K/DS Remove Coments on Pick List JLM

> EC JLM

add comment in seq. 21 DD verified

Additional Product



Job Number:



Seq. #:

Machine Or Operation:

Description:

DC 1.0

2.0

3.0

DOCUMENT CONTROL JUD 08.8, 26



Comment: DOCUMENT CONTROL

Photocopy bluefile and create labels as per PPP D412-664-203 CHG 006

PACKAGING RESOURCE #1



PACKAGING 1

D412664203TRN

Comment: PACKAGING RESOURCE #1

Crosstube Turning Detail





batch 840835

BENDING 4.0

Comment: Qty.:

Comment: BENDING MACHINE



BENDING MACHINE

Bend tube as per Dwg D412-664-243 using CNC bender program 412-af and Folio FT010

QC15 5.0

Comment: DIMENSIONAL CHECK OF X-TUBES

DIMENSIONAL CHECK OF X-TUBES

18.08.21



Dart Ae	rospace	Ltd						
W/O:			WC	RK ORDER CHANG	ES			
DATE	STEP	PRO	OCEDURE CHAI	NGE	Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector
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Tuesday, 12/08/2008 8:45:25 AM Date:. Linda Lacelle User: 👈 **Process Sheet** Drawing Name: HIGH AFT X-TUBE 412 Customer: CU-DAR001 Dart Helicopters Services Part Number: D412664203 Job Number: 41153 Job Number: Description: Seq. #: Machine Or Operation: CROSSTUBES RESOURCE 1 CROSSTUBES 6.0 Comment: LANDING GEAR RESOURCE 1 1-Drill pilot holes in tube as per Dwg D412-664-243 using drill Jig DT8550 & DT8551 2-8-22 AL/M 8-8-22 2-Ream hole to finish size in tube as per Dwg D412-664-243using drill Jig DT8550 & DT8551.Check dimensions between holes, both sides on both cuffs, to ensure alignment with saddle holes. 3-Deburr & Inspect for surface damage. Repair damage within limits as per Dwg D412-664-243 HAND FINISHING RESOURCE #1 HAND FINISHING1 7.0 Amm 8-8-d2 Comment: HAND FINISHING RESOURCE #1 Chemical Conversion Coat as per QSI 005 4.1 INSPECT POWDER COAT/CHEMICAL CONVERSION QC3 8.0 Comment: INSPE POWDER COAT/CHEMICAL CONVERSION INSPECT WORK TO CURRENT STEP 9.0 QC5 Comment: INSPECT WORK TO CURRENT STEP **OUTSIDE SERVICES -skids** OUTSIDE SERV.10 10.0 Comment: Sub-Contracting OUTSIDE SERVICES Liquid Penetrant Inspection as per QSI 038Or CL08/08/287 Issue P/O: 704(_LPI as per ASTM 1417 Level 2 Attach copy of NDT results to work order PACKAGING RESOURCE #1 11.0 Comment: PACKAGING RESOURCE #1 1 / s/28 C Inspect for transit damage Ensure copy of NDT results attached to work order.

		 								
W/O:			WO	RK ORDER CHA	NGES					
DATE	STEP	PRO	OCEDURE CHAI	NGE ·		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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				Corrective Action	Section B					T
DATE	STEP	Description of NC Section A	Initial Chief Eng	Action Descript		Sign & Date	Verific Secti		Approval Chief Eng	Approval QC Inspector
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Date: Tuesday, 12/08/2008 8:45:25 AM Linda Lacelle User: 🕔 **Process Sheet** Drawing Name: HIGH AFT X-TUBE 412 Customer: CU-DAR001 Dart Helicopters Services Part Number: D412664203 Job Number: 41153 Job Number: Description: Seq. #: **Machine Or Operation:** INSPECT WORK TO CURRENT STEP 12.0 QC5 08 09 n2 Comment: Inspect for damage & ensure results are as per Dwg D412-664-203 SPRAY PAINTING SPRAY PAINTING 13.0 Comment: SPRAY PAINTING 1-Prime inside and outside crosstube as per QSI 005 4.2 2-Paint outside crosstube with White Imron as per QSI 005 4.2 QC14 INSPECT SPRAY PAINT 14.0 Comment: Inspect Spray Paint 08-08-29 Wrap in plastic bag to protect from scratches 15.0 D3595063570 RUBBER CUSHION Comment: Qty.: 4.0000 Each(s)/Unit Total: 4.0000 Each(s) **Rubber Cushion** 08 09 Batch: 3925 D2856600 Abrasion Strip 16.0 Comment: Qty.: Total: 1.7640 f(s) 1.7640 f(s)/Unit Pick: Qty Part number Description Batch 2 D2856-600(Cut to 10.090") Abrasion Strip 17.0 D28961 Comment: Qty.: 1.0000 Each(s) 1.0000 Each(s)/Unit Total: Pick: Qty Part number **Description Batch** 08 09 Support_334 1 D2896-1 D31891 18.0 Chafing Shield Comment: Qty.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s) Pick: Description Batch 3 Qty Part number Chafing Sheild_ 2 D3189-1

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W/O:			WO	RK ORDER CHAN	IGES					
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DATE	STEP	Description of NC			ection B	:	Verific	cation	Approval	Approval
DAIL	0121	Section A	Initial Chief Eng	Action Description Chief Eng		ign & Date	Sect	ion C	Chief Eng	QC Inspector
	-									

Tuesday, 12/08/2008 8:45:25 AM Date: . User: 5 Linda Lacelle **Process Sheet** Drawing Name: HIGH AFT X-TUBE 412 Customer: CU-DAR001 Dart Helicopters Services Part Number: D412664203 Job Number: 41153 Job Number: Description: Seq. #: Machine Or Operation: MS2192028 Clamp(per MIL-DTL-8783C) 19.0 4.0000 Each(s)/Unit 4.0000 Each(s) Comment: Qty.: Total: Pick: Description Batch Qty Part number Clamp 108720 4 MS21920-28 08 09 02 MS2192030 clamp(per MIL-DTL-8783C) 20.0 Comment: Qty.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s) clamp(per MIL-DTL-8783C) 08 0909 batch: 106810 CROSSTUBES CROSSTUBES RESOURCE 1 21.0 Comment: LANDING GEAR RESOURCE 1 Assemble as per Dwg D412-664-203 1- Lightly scuff the bonded area using a 320 grit sand paper and clean the area with 41058 wash 'n' wipe 08 09 02 (1) 2-Install supports with magnobond as per QSI 015 Adhere for for 12 Hrs Batch: 108966

Expiry Date: 10/2009

+ 100: 4:25pm A/R 6398 Magnobond 3-Install clamps as per Dwg D212-664-203 using installation jig DT9024 with 0.010 thick brass shims on both chafing sheild (D3189-1). Torque clamps to 80-100 in lb. 22.0 QC5 Comment: INSPECT WORK TO CURRENT STEP PACKAGING RESOURCE #1 23.0 PACKAGING 1 Comment: PACKAGING RESOURCE #1 Pick Packing Kit

W/O:			WORK OR	DER CHANG	SES				
DATE	STEP	PRO	CEDURE CHANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	•	PAR #:	Fault Category:		_ NCR: Ye	es No DG	λA:	Date: _	
				•	QA	: N/C Close	ed:	Date: _	

NCR:			WORK ORD	ER NON-CONFORMAN	CE (NCR))		
		Description of NC		Corrective Action Section B		Verification	Annessal	Annessal
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector
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	sday, 12/08/2008 8:45:25 AM a Lacelle	Process Sheet	
Customer:	CU-DAR001 Dart Helicopters Services	Drawing Name: HIGH AFT X-TUBE 412	
-		with a samp	
Job Number:	41153	Part Number: D41,2664203	
Job Number:			
Seq. #:	Machine Or Operation:	Description :	
24.0	ANG40A	Bolt	
Comme	ent: Qty.: 4.0000 Each(s)/Unit Total: Bolt	4.0000 Each(s)	
	Batch: <u>M10797</u> 1		SQ
25.0	AN641A	Bolt ∐ iii iIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	,
			•
Comme	ent: Qty.: 2.0000 Each(s)/Unit Total:	2.0000 Each(s)	\mathcal{L}
	Bolt Batch: MI07013		54
26.0	AN960JD616	Washer	7
		i. 1994 Co.	
Comme	ent: Qty.: 18.0000 Each(s)/Unit Total:	18.0000 Each(s)	
	Washer Batch: <u>Mo79</u> 59		SE
27.0	MS21042L6	Nut	
	ent: Qty.: 6.0000 Each(s)/Unit Total:	6.0000 Each(s)	
<u>د</u>	Nut Batch: <u> </u>	x/9/2	Q)
28.0	QC4	INSPECT 100% KITS FOR COMPLETENESS	1
	ent: INSPECT 100% KITS FOR COMPLETE		20
29.0	PACKAGING 1	PACKAGING RESOURCE #1	
Comme	nt: PACKAGING RESOURCE #1		(VU)
	Identify and pack for shipping as per PF	PP D412-664-203	
		ring time is less than 12 hrs, see step 27 for application time & date	

	Time & date of packaging:	\$/09/05 8:00 mm D8 08/09/05 (CC)	
	Location:Rev:Rev G	Rosloglor Co	
	111 1/64. 1980	00 00 10 10 00 CC	

W/O:		WORK ORDER CHANGES					,
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
: 							
		·					

Part No: D2112-664-203 PAR #: NA Fault Category: Prad Packag, by NCR: Yes No DQA: Date: 08/09/10

QA: N/C Closed: Date: 08/09/11

NCR: L	11153	W	ORK OR	DER NON-CONFORMANCE	(NCR)			
		Description of NC		Corrective Action Section B		Verification	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description . Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector
		was accidently pushed into a metal shelf, and the printwas peeled down to the aluminum.		- Sand the affected area, and touch-up with modine. repaint up to the support on one side only per assous.	M			
68-69-03	29.0	is metal shelf, and the		repaint up to the support.			//	//
666109		the Aluminum.	Josius	on one side only per asious.	08 04 0	ostales /	tassur!	1080903
		L.C. Employee did not	05142	+ No damage in to the		00/01/2		
		realize sle unsint +2 shelf.		Aluminum.				
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Date: ` -

Tuesday, 12/08/2008 8:45:25 AM

User: ₹

Linda Lacelle

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: HIGH AFT X-TUBE 412

Job Number: 41153

Part Number: D412664203

Job Number:



Seq. #:

Machine Or Operation:

Description:

30.0

QC21

FINAL INSPECTION/W/O RELEASE

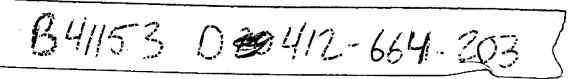


08/09/60

Job Completion



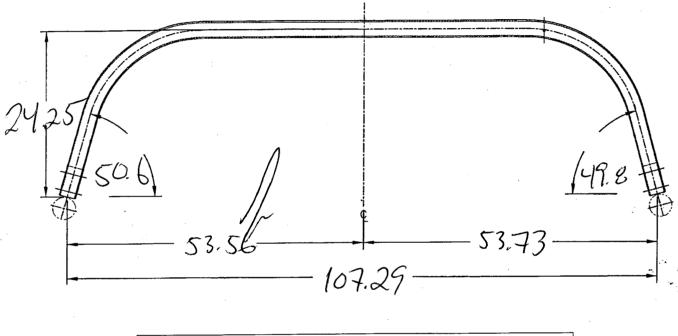
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		Section A	Chief Eng	Chief Eng	Date		ion C	Chief Eng	QC Inspector
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DART AEROSPACE LTD	Work Order:	41153
Description: Crosstube High Aft (412)	Part Number:	D412-664-203
Inspection Dwg: D412-664-243 Rev: D		Page 1 of 1

Required Dimension	Min	Max
Height	24.24	24.50
1/2 Span	53.59	53.85
Angle	49	52
Total Span	107.18	107.70



Cor	nments	
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QC15 Inspection Date		
Date	10130821	

Rev	Date	Change	Revised by	Approved
Α	07.02.06	New Issue	KJ/JM	
В	07.05.08	Dimensions updated per Dwg rev. D	KJ/JLM 🚓	fr
			• ()	. /

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
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DESIG	n PH	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
CHEC	KED (P)	APPROVED #	DRAWING NO. REV. D D412-664-243 SHEET 1 OF 3
DATE			TITLE SCALE
07.0	03.09		CROSSTUBE ASSEMBLY (412 HI AFT) NTS
Α		01.10.17	NEW ISSUE
В		05.02.04	ADD HOLES FOR COMPATABILITY WITH BHT/AA SKIDTUBES
С		06.10.27	REMOVE D2856-600-1087, ADD D2732-058 & MAGNOBOND 6398 MS21920-32 WAS MS21920-30
D		07.03.09	REMOVE D2732-058, CHANGE TO

RELEASE	
07.04.24	,

Qty	Part Number	Description
Х	D412-664-243	CROSSTUBE ASSEMBLY (412 HIGH AFT)
1	D6009-129	CROSSTUBE
2	D3595-063-570	RUBBER CUSHION
1	D2896-1	SUPPORT
2	D2856-600-1009	ABRASION STRIP
4	MS21920-28	CLAMP
2	MS21920-30	CLAMP (OR MS21920-32)
2	D3189-1	CHAFING SHIELD
A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947-100, TYPE II, CLASS 2 ADHESIVE)

GENERAL NOTES:

- 1) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- MATERIAL: MANUFACTURED FROM D6009-129 FINISHED LENGTH = 124.09±0.020
- FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2 PAINT OUTSIDE PER DART 005 4.2
- PART IS SYMMETRIC ABOUT CENTERLINE.
- RUN-OFF PART. BLEND OUT EDGE LONGITUDINALY, TRANSITION SHOULD BE SMOOTH.
- BEND PROGRESSIVELY WITH A MINIMUM OF 8 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS 6% BASED ON O.D.
- LIQUID PENETRANT INSPECT OUTSIDE SURFACE OF CROSSTUBE PER QSI 038.
- SCRIBE DART PART NUMBER AND BATCH NUMBER IN THIS AREA WITH VIBRATING STYLUS.
- INSTALL D2856-600-1009 ABRASION STRIP WITH A 0.13 (REF) GAP ON BOTTOM SIDE OF CROSSTUBE PER QSI 035.
- 10) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.

11) APPLY A 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2896-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE SUBJECT TO AMENDMENT FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.

- 12) INSTALL MS21920-30 CLAMPS (OR -32) WITH D3595-063-570 RUBBER CUSHIONS TO SECURE D2896-1 SUPPORT ON TOP SIDE OF THE CROSSTUBE. ENSURE CLAMPS ARE OPPOSITE CROSSTUBE SUPPORT.
- 13) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.

SHOP COPY RETURN TO ENGINEERING

UNCONTROLLED COPY WITHOUT NOTICE

WORK ORDER

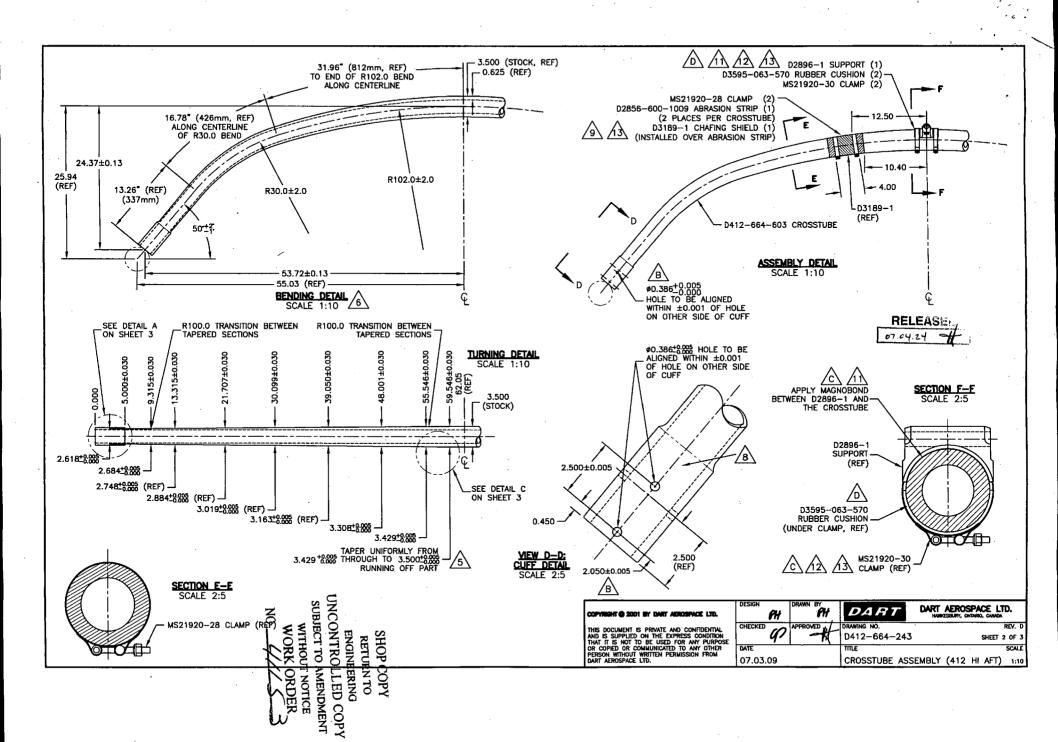
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W/O:			WC	ORK ORDER CHANG	ES				
DATE	STEP	PR	PROCEDURE CHANGE			Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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DATE	STEP	P Description of NC Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Secti	Verification Section C	Approval Chief Eng	Approval QC Inspector
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NOTE: Date & initial all entries

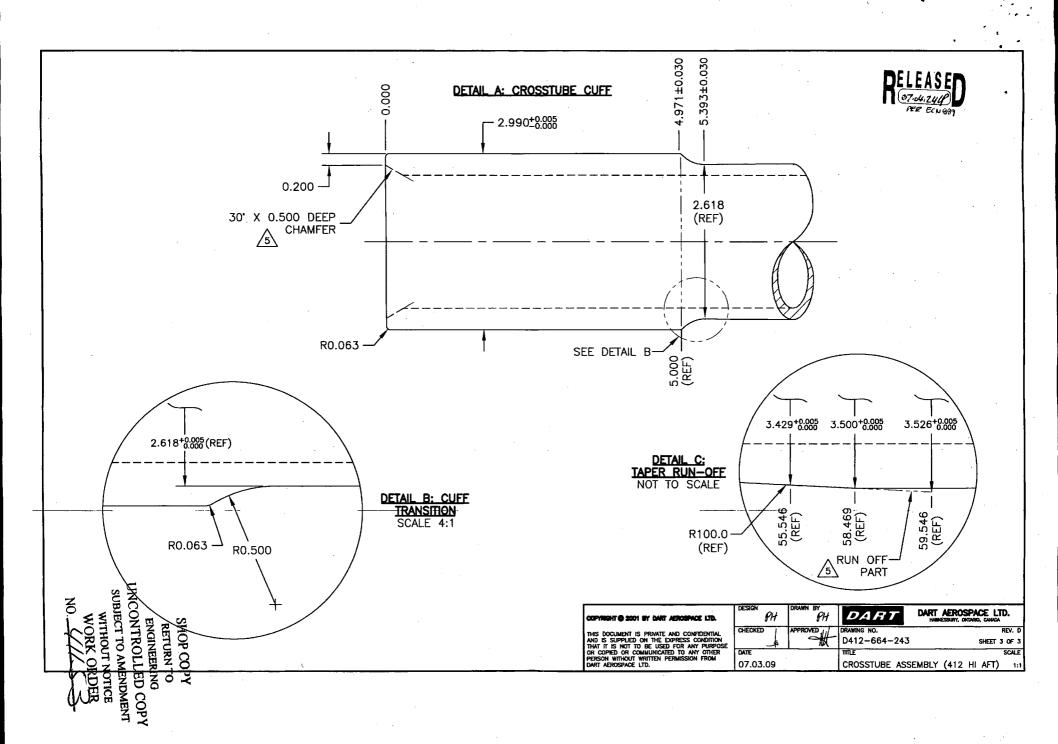
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QA: N/C Closed: ____ Date: ____

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		Description of NC		Corrective Action Section B		Verification	Approval Chief Eng	Approval QC Inspector		
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C				
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W /O:		WORK ORDER CHANGES								
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Part No:	_ PAR #:	Fault Category:	NCR: Yes	No	DQA:	Date:	
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ACUREN										
• •								PAGE	1	OF _1
CLIENT	DART AEROS	PACE			DATE	AUG 28, 200)8	TIME	AM 🗆	PM 🔾
TIENTION LINDA LACELLE		LE			ACUREN JOB NO.	188 08 1454				
ADDRESS	1270 ABERDE) ABERDEEN ST				7041				
ADDICES	HAWKESBUR	Y, ONT.				HAWKESBU				
					ACCEPTANCE STE			REV./D/	2005	
PROJECT	412 HIGH AFT	X TUBES, 212/205	HIGH FED X	TUBES, 21			FT X TUBE.			
TEM(S) EXAMINED	JOB#S (4115	53,)41154, 41155, 41	391, 41392, 4	1401, 414	02.					
HEMICA) EVAMINATED										
JOB DESCRIPTI	ION	PROCEDURE No.	LT-0002 F	REV./DATE		TECHNIQUE NO.	LT-TECH2	Rev./D/	ATE	
TARY NO. DA126	E4202 /D212664	101/D212664201/D2	206667203		MATERIAL ALO	DINED ALUM.	T _F	HICKNESS		
		NT LIQUID PENET		PECTION						
SCOPE WET	FLOURESCLI	NI LIQUID F LIVE	I IVAIT II TO	LOTION	CARRIED CO.	OIT 10070	L. 17 17 12	<u> </u>		
TEST DETAILS									□ Pos	ST
METHOD	Ø FLU	JORESCENT	U VISIBLE	Ε	☑ WATER WASH		SOLVENT REM		EMULS	SIFIED
	MAGNAFLUX			7.8	BLACK LGHT8171		OUTPUT > 100			BIENT < 2 fc
PENETRANTZL67 PENETRANT REMO	VED 420	MINIMUM DWELL MINIMUM DRY TI				CAL JUNE 16		HI UI OUI	PUI-100	CW SURFACE
	SKDS2	MINIMUM DWELL			LIGHT METER S/N			CAL DI	JE DATE	
DEVELOPER TYPE	Ø Non A	QUEOUS 🗆 AQUEO	us 🗆	DRY				<u>.</u>		
TEST SURFACE			* - 146- mpp		T Manager	C CHOT PLA	~*************************************	E71	CLEAN BA	DE METAI
SURFACE CONDITION SURFACE TEMPERA			-4°C/20°F TO	0 10°C/50°	□ MACHINED °F	☐ SHOT BLAS	STED F то 52°C/12 5		> 52°C/12	
RESULTS-	(METRIC		-7 0/20	010 0.00				·		
	,— ·									
FLUOR	RESCENT LIQUID P	PENETRANT INSPECT	ION							
CARRI	ED OUT ON 100%	6 EXTERNAL								
SURFA	CE ON:									
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(412)H	IGH AFT X TUBE J	ов#ई 41153) 41154	4.		δ. /lm.	ζ Λ				
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RESU	II TS: NO INDIC	CATION OF DEFE	CTS.							
		CEPTABLE TO STA								
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Scope of Services										
The agreement of Acuren (understood that all descrip	ntions, comments and exp	ervices extends only to those : ressions of opinion reflect the	e opinions or observ	ations of Acure	en Group Inc. based on info	ermation and assumption	is supplied by the oi	wuer operator a	md are not inte	ended nor can the
he construed as representa	ations or warranties. Ac	turen Group Inc. is not assum in provided by Acuren Group Ii	ning any responsibil	lities of the owi	ner operator and the owner	r operator retains compi	lete responsibility fo	or the engineeri	ing, mannifactu	nre, repair and us
Standard of Care	_	Inc. uses the degree, care and		-						
mplied, is made or intende			·							
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VAME (PRINT):		JASON HEWETT	Г		<u>.</u>		-	NAME		INITIALS
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